



SAFETY DATA SHEET

Copper Ease

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

1.1. Product identifier

Product name	Copper Ease
Product number	CE500M, 19/DB/050, HMTN0018A
Internal identification	NQA2411
UFI	UFI: V0P6-50S5-6002-8G6H
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. Grease.
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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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Copper Ease

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@lvgmc.lv (Latvia)
 +370 70662008; aaa@aaa.am.lt (Lithuania)
 +320 22649636; +352 24785551; info@poisoncentre.be; direction-sante@ms.etat.lu (Luxembourg)
 +356 2395 2000; info@mccaa.org.mt (Malta)
 +31 88 75 585 61; productnotificatie@umcutrecht.nl (The Netherlands)
 +4573580500; produktregisteret@miljodir.no / +47 21 07 70 00; folkehelseinstituttet@fhi.no (Norway)
 +48 42 2538 400; biuro@chemikalia.gov.pl (Poland)
 +351 800 250 250; ciav.tox@inem.pt (Portugal)
 +40213183606; infotox@insp.gov.ro (Romania)
 +7 495 621 6885; +7 495 628 1687; rtiac@mail.ru; rtiac2003@yahoo.com (Russia)
 +421 2 5465 2307; ntac@ntac.sk (Slovakia)
 + 386 1 522 1293; gp.ukc@kclj.si (Slovenia)
 +34 917689800; intcf.doc@justicia.es (Spain)
 +46104566750; giftinformation@gic.se (Sweden)
 +44 121 507 4123; allistervale@npis.org, sallybradberry@npis.org (UK)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Skin Irrit. 2 - H315 STOT SE 3 - H336
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word

Danger

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Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P261 Avoid breathing spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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: V0P6-50S5-6002-8G6H
Contains	Naphtha (petroleum), hydrotreated light

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Naphtha (petroleum), hydrotreated light			30-60%
CAS number: 64742-49-0	EC number: 265-151-9	REACH registration number: 01-2119475133-43-XXXX	
Classification Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411			

BUTANE			10-30%
CAS number: 106-97-8	EC number: 203-448-7	REACH registration number: 01-2119474691-32-XXXX	
Classification Flam. Gas 1A - H220 Press. Gas			

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Distillates (petroleum), hydrotreated heavy paraffinic			10-30%
CAS number: 64742-54-7	EC number: 265-157-1	REACH registration number: 01-2119484627-25-XXXX	
Classification Not Classified			
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			
Talkum			5-10%
CAS number: 14807-96-6	EC number: 238-877-9	REACH registration number: 01-2120140278-58-XXXX	
Classification Not Classified			
Copper			1-5%
CAS number: 7440-50-8	EC number: 231-159-6	REACH registration number: 01-2119480154-42-XXXX	
M factor (Acute) = 10	M factor (Chronic) = 1		
Classification Acute Tox. 4 - H302 Acute Tox. 3 - H331 Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410			

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DIPHENYLAMINE			<1%
CAS number: 122-39-4	EC number: 204-539-4	REACH registration number: 01-2119488966-13-XXXX	
M factor (Acute) = 1			
Classification			
Acute Tox. 3 - H301			
Acute Tox. 3 - H311			
Acute Tox. 3 - H331			
STOT RE 2 - H373			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
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. Wash skin thoroughly with soap and water. Rinse immediately with plenty of water. Get medical attention if any discomfort continues.
Eye contact	Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause discomfort if swallowed.
Skin contact	Causes skin irritation. 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.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.
Hazardous combustion products	Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours. Oxides of carbon. Copper degradates

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5.3. Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water. 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. 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.

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 Good personal hygiene procedures should be implemented. Keep away from heat, sparks and open flame. Avoid spilling. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class Flammable compressed gas storage. Aerosol containers and lighters

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

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

DIPHENYLAMINE

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

Short-term exposure limit (15-minute): WEL 20 mg/m³

WEL = Workplace Exposure Limit.

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

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DNEL	Workers - Inhalation; Long term systemic effects: 5306 mg/m ³
	Workers - Dermal; Long term systemic effects: 13964 mg/kg/day
	General population - Inhalation; Long term systemic effects: 1131 mg/m ³
	General population - Dermal; Long term systemic effects: 1377 mg/kg/day
	General population - Oral; Long term systemic effects: 1301 mg/kg/day

Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

DNEL	Workers - Inhalation; Long term systemic effects: 2.73 mg/m ³
	Workers - Inhalation; Long term local effects: 5.58 mg/m ³
	Workers - Dermal; Long term systemic effects: 0.97 mg/kg/day
	Workers - Hazard for the eyes no hazard identified
	General population - Oral; Long term systemic effects: 0.74 mg/kg/day
PNEC	Secondary Poisoning (Hazard for Predators) - Oral; 9.33 mg/kg food

Talkum (CAS: 14807-96-6)

DNEL	Workers - Inhalation; Long term systemic effects: 2.16 mg/m ³
	Workers - Inhalation; Long term local effects: 3.6 mg/m ³
	Workers - Inhalation; Short term Acute: 3.6 mg/m ³
	Workers - Dermal; Long term systemic effects: 43.2 mg/kg/day
	Workers - Dermal; Long term local effects: 4.54 mg/cm ²
	Workers - Hazard for the eyes no hazard identified
	General population - Inhalation; Long term systemic effects: 1.08 mg/m ³
	General population - Inhalation; Short term Acute: 1.08 mg/m ³
	General population - Inhalation; Long term local effects: 1.8 mg/m ³
	General population - Dermal; Long term systemic effects: 21.6 mg/kg/day
	General population - Dermal; Long term local effects: 2.27 mg/cm ²
	General population - Oral; Long term systemic effects: 160 mg/kg/day
	General population - Oral; Short term Acute: 160 mg/kg/day
	General Population - Hazard for the eyes no hazard identified
PNEC	Fresh water; 597.97 mg/l
	Intermittent release, Fresh water; 597.97 mg/l
	marine water; 141.26 mg/l
	Intermittent release, marine water; 141.26 mg/l
	Sediment (Freshwater); 31.33 mg/kg sediment dry weight
	Sediment (Marinewater); 3.13 mg/kg sediment dry weight
	Air; 10 mg/m ³

Copper (CAS: 7440-50-8)

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DNEL

Workers - Inhalation; : LOAEC 1240 mg/m³
 Workers - Inhalation; Long term local effects: 1.0 mg/m³
 Workers - Inhalation; Short term Acute: 1.0 mg/m³
 Workers - Dermal; Long term systemic effects: 137 mg/kg/day
 Workers - Dermal; Short term Acute: 273 mg/kg/day
 Workers - Hazard for the eyes
 no hazard identified
 General population - Inhalation; : LOAEC 1240 mg/m³
 General population - Inhalation; Long term local effects: 1.0 mg/m³
 General population - Inhalation; Short term Acute: 1.0 mg/m³
 General population - Dermal; Long term systemic effects: 137 mg/kg/day
 General population - Dermal; Short term Acute: 273 mg/kg/day
 General population - Oral; Long term systemic effects: 0.041 mg/kg/day
 General Population - Hazard for the eyes
 low hazard (no threshold derived)

PNEC

Fresh water; 7.8 µg/l
 marine water; 5.2 µg/l
 STP; 230 µg/l
 Sediment (Freshwater); 87 mg/kg sediment dry weight
 Sediment (Marinewater); 676 mg/kg sediment dry weight
 Soil; 65 mg/kg soil dry weight

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

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	Brown.
Odour	Solvent.

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Flash point	< 0°C
Relative density	0.837 @ 20°C

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 66 %.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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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	No potentially hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposing aerosol containers to high temperatures or direct sunlight.
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10.5. Incompatible materials

Materials to avoid	No specific requirements are anticipated under normal conditions of use.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon dioxide (CO ₂). Carbon monoxide (CO).
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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.
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Acute toxicity - oral

Notes (oral LD ₅₀)	Based on available data the classification criteria are not met.
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ATE oral (mg/kg)	18,382.35
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Acute toxicity - dermal

Notes (dermal LD ₅₀)	Based on available data the classification criteria are not met.
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ATE dermal (mg/kg)	220,588.24
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Acute toxicity - inhalation

Notes (inhalation LC ₅₀)	Based on available data the classification criteria are not met.
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ATE inhalation (gases ppm)	514,705.88
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ATE inhalation (vapours mg/l)	2,205.88
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ATE inhalation (dusts/mists mg/l)	22.98
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Skin corrosion/irritation

Skin corrosion/irritation	Causes skin irritation.
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Serious eye damage/irritation

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

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.

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

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation. 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.

Naphtha (petroleum), hydrotreated light

Acute toxicity - oral

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

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 5610 mg/m³, Inhalation, Rat

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

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Serious eye damage/irritation	Based on available data the classification criteria are not met.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Negative.
Genotoxicity - in vivo	Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEC 9869 mg/m ³ , Inhalation, Rat Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Fertility, Two-generation study - NOAEC 20000 mg/m ³ , Inhalation, Rat F2a Based on available data the classification criteria are not met.
Reproductive toxicity - development	Developmental toxicity: - NOAEC: 23900 mg/m ³ , Inhalation, Rat Developmental toxicity: - NOAEL: 500 mg/kg bw/day, Dermal, Rat Does not contain any substances known to be toxic to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	May be fatal if swallowed and enters airways.

BUTANE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
	<u>Distillates (petroleum), hydrotreated heavy paraffinic</u>
<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 5000 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rabbit
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC50 5000 mg/m ³ , Inhalation, Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	No adverse effect observed (not irritating)

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Serious eye damage/irritation

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

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 Negative.

Carcinogenicity

Carcinogenicity Adverse effects observed

Reproductive toxicity

Reproductive toxicity - fertility One-generation study - NOAEL $\geq$ 1000 mg/kg/day, Oral, Rat Two-generation study - NOAEL 2000 mg/kg/day, Dermal, Rat P Based on available data the classification criteria are not met.

Reproductive toxicity - development 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.

PROPANE

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 5,000.0

ISOBUTANE

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 5,000.0

Talkum

Acute toxicity - oral

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Notes (oral LD₅₀)	LD ₅₀ > 5000 mg/kg, Oral, Rat
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rat
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC50 2.1 mg/l, Inhalation, Rat
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	No adverse effect observed (not irritating)
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	No adverse effect observed (not irritating)
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No adverse effects observed (negative)
Genotoxicity - in vivo	No adverse effects observed (negative)
<u>Carcinogenicity</u>	
Carcinogenicity	NOAEL 100 mg/kg/day, Oral, Rat NOAEC 8.1 mg/m ³ , Inhalation, Hamster NOAEC 18 mg/m ³ , Inhalation, Mouse NOAEL 8.1 mg/m ³ , Dermal, Hamster NOAEL 2.5 mg/kg/day, Dermal, Rat No adverse effects observed.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - NOAEL > 900 mg/kg/day, Oral, Rat F1 One-generation study - NOAEL 900 mg/kg/day, Oral, Rabbit - NOAEC 69.57 mg/m ³ , Inhalation, Rat - NOAEL 216 mg/kg/day, Dermal, Rabbit No adverse effects observed.
Reproductive toxicity - development	Developmental toxicity: - NOAEL: > 1600 mg/kg/day, Oral, Mouse No adverse effects observed.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Conclusive data but not sufficient for classification.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Conclusive data but not sufficient for classification.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

Copper

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 300 mg/kg, Oral, Rat REACH dossier information.
ATE oral (mg/kg)	500.0
<u>Acute toxicity - dermal</u>	

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Notes (dermal LD₅₀)	LD ₅₀ > 2000 mg/kg, Dermal, Rat REACH dossier information.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	LC ₅₀ > 5.11 mg/l, Inhalation, Rat REACH dossier information.
ATE inhalation (dusts/mists mg/l)	0.5
<u>Skin corrosion/irritation</u>	
Skin corrosion/irritation	No adverse effect observed (not irritating)
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	No adverse effect observed (not irritating)
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No adverse effects observed (negative)
Genotoxicity - in vivo	No adverse effects observed (negative)
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Two-generation study - LOAEL > 1500 ppm, Oral, Rat F1, F2 Two-generation study - NOAEL 1000 ppm, Oral, Rat F1, F2 No evidence of reproductive toxicity in animal studies. Based on available data the classification criteria are not met.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Conclusive data but not sufficient for classification.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Conclusive data but not sufficient for classification.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

DIPHENYLAMINE

<u>Acute toxicity - oral</u>	
Notes (oral LD₅₀)	LD ₅₀ 800 mg/kg, Oral, Rat Toxic if swallowed.
<u>Acute toxicity - dermal</u>	
Notes (dermal LD₅₀)	Toxic in contact with skin.
<u>Acute toxicity - inhalation</u>	
Notes (inhalation LC₅₀)	Toxic if inhaled.

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Skin corrosion/irritation

Skin corrosion/irritation No adverse effect observed (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 NOAEL 73 mg/kg/day, Oral, Rat No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure Data lacking.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Target organs Kidneys Liver Spleen Blood system

Aspiration hazard

Aspiration hazard Not relevant.

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Ecological information on ingredients.

Naphtha (petroleum), hydrotreated light

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: 10 mg/l, Oncorhynchus mykiss (Rainbow trout)
LL₅₀, 96 hours: 8.2 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: 4.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants EL₅₀, 72 hours: 3.1 mg/l, Pseudokirchneriella subcapitata
NOELR, 72 hours: 0.5 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₅₀, 40 hours: 15.41 mg/l, Tetrahymena pyriformis

Copper Ease

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOELR, 21 days: 2.6 mg/l, Daphnia magna

Distillates (petroleum), hydrotreated heavy paraffinic

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)
NOEL, 96 hours: >= 100 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EL50, 48 hours: > 10000 mg/l, Daphnia magna
NOEL, 48 hours: >= 1000 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEL, 72 hours: >= 100 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms NOEL, 4 days: > 1.93 - > 2.17 mg/l, Photobacterium phosphoreum luminescence inhibition study

Chronic aquatic toxicity

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

Talkum

Acute aquatic toxicity

Acute toxicity - fish Scientifically unjustified.
Technically not feasible.

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 36812.359 mg/l, QSAR

Acute toxicity - aquatic plants Scientifically unjustified.
Technically not feasible.

Acute toxicity - microorganisms Scientifically unjustified.
Technically not feasible.

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Scientifically unjustified.
Technically not feasible.

Short term toxicity - embryo and sac fry stages Scientifically unjustified.
Technically not feasible.

Chronic toxicity - aquatic invertebrates Scientifically unjustified.
Technically not feasible.

Copper

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - aquatic plants NOEC, 7 days: 30 µg/l, Lemna minor

Copper Ease

Acute toxicity - microorganisms	EC10, NOEC, 30 days: 0.23 mg/l, Activated sludge
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, : 11.6 - 56.2 µg/l, Oncorhynchus mykiss (Rainbow trout), Pimephales notatus NOEC, : 5.9 - 145 µg/l, Mytilus galloprovincialis, Penaeus monodonand

DIPHENYLAMINE

<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1.2 - 2.6 mg/l, Daphnia magna LC ₅₀ , 96 hours: 1.22 - > 10 mg/l, Nitocra spinipes
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 2.17 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Ecological information on ingredients.

Naphtha (petroleum), hydrotreated light

Biodegradation	Inherently biodegradable.
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Distillates (petroleum), hydrotreated heavy paraffinic

Persistence and degradability	Inherently biodegradable
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Talkum

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

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

Persistence and degradability	Inherently biodegradable
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12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation is unlikely.
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Ecological information on ingredients.

Talkum

Bioaccumulative potential	BCF: 3.162 L/Kg, QSAR
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Copper Ease

12.4. Mobility in soil

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

Ecological information on ingredients.

Talkum

Adsorption/desorption coefficient QSAR - Koc: 31.82 @ 20°C

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

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

Talkum

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

Copper

Results of PBT and vPvB assessment Not relevant.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

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

14.1. UN number

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

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Copper Ease

Proper shipping name (IMDG) AEROSOLS (CONTAINS Naphtha (petroleum), hydrotreated light, Copper)

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



14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

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

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

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

Copper Ease

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.

Authorisations (Annex XIV Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

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.
 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.
 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.
 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.

Classification procedures according to Regulation (EC) 1272/2008

Aerosol 1 - H222, H229: Calculation method. Skin Irrit. 2 - H315: Calculation method. STOT SE 3 - H336: Calculation method. Aquatic Chronic 2 - H411: Calculation method.

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Copper Ease

Revision	4
Supersedes date	28/04/2021
SDS number	21510
Hazard statements in full	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

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