

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 07/10/2022 Revision date: 16/01/2024 Supersedes version of: 16/01/2024 Version: 1.8

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

1.1. Product identifier

Product form : Mixture

Product name : Copper Anti-Seize Paste

Product code : 0253-0006

Type of product : Lubricants, greases, release products

Product group : End product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Industrial use,Professional use
Use of the substance/mixture : Lubricants and additives
Function or use category : Lubricants and additives

1.2.2. Uses advised against

Restrictions on use : No specific use advised against. Use only for intended applications

1.3. Details of the supplier of the safety data sheet

Manufacturer

Ironsides Lubricants Ltd Shield Street SK3 0DS Stockport – Cheshire United Kingdom

T +44 (0)161 477 5858

enquiries@ironsideslubricants.co.uk - https://www.ironsideslubricants.co.uk/

1.4. Emergency telephone number

Emergency number : +44 (0) 161 477 5858

Operating hours: Monday to Thursday 8:00 - 17:00 GMT Friday 8:00 - 12:30 GMT

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP) : -

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component

Distillates (petroleum), hydrotreated heavy naphthenic

(64742-52-5)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy naphthenic (Main constituent) substance with national workplace exposure limit(s) (GB) (Note L)	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 REACH-no: 01-2119467170-	≥ 50 − < 80	Not classified
Limestone substance with national workplace exposure limit(s) (GB)	CAS-No.: 1317-65-3 EC-No.: 215-279-6 REACH-no: Exempted in accordance with Annex V.7	≥ 5 – < 10	Not classified
copper flakes (coated with aliphatic acid)	EC Index-No.: 029-019-01-X REACH-no: 01-2119480154- 42	≥1-<3	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)
propylene carbonate	CAS-No.: 108-32-7 EC-No.: 203-572-1 EC Index-No.: 607-194-00-1 REACH-no: 01-2119537232-	≥1-<3	Eye Irrit. 2, H319
Graphite substance with national workplace exposure limit(s) (BE, ES, HR, IE)	CAS-No.: 7782-42-5 EC-No.: 231-955-3 REACH-no: 01-2119486977- 12 UK-20-6052260709-6	< 1	Not classified

Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it

before reuse. Seek medical attention if irritation develops.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion

Rinse mouth out with water. Get medical advice/attention if you feel unwell. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

Symptoms/effects after inhalation Symptoms/effects after skin contact : Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation.

Prolonged or repeated contact may cause skin to become dry. Slight irritation. Cracking of

the skin.

Symptoms/effects after eye contact

: May cause slight irritation.

Symptoms/effects after ingestion : None under normal conditions. May cause irritation to the digestive tract. Ingestion may

cause nausea and vomiting.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media : Water fog. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

: Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Fire hazard

: Will ignite if exposed to intensive heat.

Explosion hazard

: Not expected to be a fire/explosion hazard under normal conditions of use. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and iniuries.

Reactivity in case of fire

: Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

Hazardous decomposition products in case of fire

Toxic fumes may be released. Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx) (as NO2). Sulfur oxides (SOx). Phosphorus oxides. Hydrogen sulphide. Metal oxides.

5.3. Advice for firefighters

Precautionary measures fire

Firefighting instructions

: Evacuate area.

Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed

containers.

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Spill area may be slippery. Prevent soil and water pollution. Prevent entry to sewers and public waters.

6.1.1. For non-emergency personnel

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures

: Ventilate spillage area. Evacuate unnecessary personnel. Avoid any direct contact with the product. Stop leaks if it can be done without personal risk. Eliminate all ignition sources if safe to do so.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

For containment : For a large spillage, contain the spillage by bunding.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Sweep or shovel spills into

appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. May be reused following decontamination. Clean

contaminated surfaces with an excess of water.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of contaminated materials refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : E Precautions for safe handling : V

: Empty containers retain product residue and can be hazardous.

: Wear personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe fumes from fires or vapours from decomposition. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure good ventilation of the work station. Spilled

material may present a slipping hazard. Clean spills promptly.

Hygiene measures : Routine housekeeping should be instituted. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before

reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Store away from oxidising agents. Protect from

sunlight. Store: Store in original container, Always keep in containers made of the same material as the supply container. do not store in unlabelled containers. Opened containers must be carefully closed and kept upright to avoid leakage. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Empty containers

retain product residue and can be hazardous.

Maximum storage period : 5 yearStorage temperature : 0 - 40 °C

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Information on mixed storage : Store away from strong oxidizers, strong bases, strong acids.

Storage area : Store at ambient temperature.

Special rules on packaging : Keep container tightly closed and dry.

Packaging materials : Suitable container materials. Mild steel. Certain plastic materials.

7.3. Specific end use(s)

Lubricants, greases, release agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1 mg/m³
WEL STEL (OEL STEL)	3 mg/m³

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Limestone (1317-65-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Natural Calcium Carbonate
WEL TWA (OEL TWA) [1]	10 mg/m³ GB EH40
Graphite (7782-42-5)	
Belgium - Occupational Exposure Limits	
Local name	Graphite (excepté fibres) (fraction alvéolaire) # Grafiet (vezels uitgezonderd) (inadembare fractie)
OEL TWA	2 mg/m³
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
Croatia - Occupational Exposure Limits	
Local name	Prašina grafita
GVI (OEL TWA) [1]	10 mg/m³ U (ukupna prašina) 4 mg/m³ R (respirabilna prašina)
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
Ireland - Occupational Exposure Limits	
Local name	Graphite (all forms except fibres)
OEL TWA [1]	2 mg/m³ R (Respirable Fraction)
Regulatory reference	Chemical Agents Code of Practice 2021
Spain - Occupational Exposure Limits	
Local name	Grafito
VLA-ED (OEL TWA) [1]	2 mg/m³ polvo. Fracción respirable
Remark	d (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2022. INSHT

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid spills. Do not walk on or roll equipment over spills.

8.2.2. Personal protection equipment

Personal protective equipment:

Eye protection should only be necessary where liquid could be splashed or sprayed. If the ventilation is suitable, it is not essential to wear respiratory equipment. Use barrier cream. Boots, gloves, goggles.

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Personal protective equipment symbol(s):











8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses, Safety goggles	Droplet, Dust, Fine dust	clear, with side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	>0.09	2 (< 1.5)	EN ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

If the ventilation is suitable, it is not essential to wear respiratory equipment. In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Particle filter, Gas/vapour filter	Vapour protection	EN 143

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : copper.
Appearance : Paste.

Odour : almost odourless.
Odour threshold : Not available

Melting point : ≥ 280 °C ASTM D2265

Freezing point : Not available
Boiling point : Not available
Flammability : Non flammable.

Explosive properties : Not considered to be explosive.

Lower explosion limit : Not applicable

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Upper explosion limit : Not applicable
Flash point : ≥ 200 °C ASTM D93
Auto-ignition temperature : Not applicable
Decomposition temperature : Not available
pH : Not available
pH solution : Not available

Viscosity, kinematic : 100 mm²/s @ 40°C. Major component

Solubility : Material insoluble in water.

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : 0.9 – 1 @ 25°C Relative vapour density at 20°C : Not applicable Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

On heating or during combustion: May release: Carbon oxides (CO, CO2). Nitrogen oxides (NOx) (as NO2). Sulfur oxides (SOx). Hydrogen sulphide. Phosphorous oxide. Metal oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 5000 mg/kg

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LC50 Inhalation - Rat (Dust/Mist) Discount Discoun
LD50 oral rat S000 mg/kg
Craphite (7782-42-5) LD50 oral rat
LD50 oral rat > 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method) LC50 Inhalation - Rat
423 (Acute Oral toxicity - Acute Toxic Class Method) LC50 Inhalation - Rat
Inhalation Toxicity) propylene carbonate (108-32-7) LD50 oral rat
LD50 oral rat
D50 dermal rabbit > 2000 mg/kg (OECD Guideline 402)
Skin corrosion/irritation : Not classified propylene carbonate (108-32-7) pH
propylene carbonate (108-32-7) pH
pH 7 (200 g/l, 20 °C) Serious eye damage/irritation : Not classified propylene carbonate (108-32-7) pH 7 (200 g/l, 20 °C) Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
Serious eye damage/irritation : Not classified propylene carbonate (108-32-7) pH
propylene carbonate (108-32-7) pH
pH 7 (200 g/l, 20 °C) Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
Reproductive toxicity : Not classified STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
STOT-single exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) NOAEL (dermal, rat/rabbit) > 2000 mg/kg bodyweight STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
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STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
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LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
NOAEL (dermal, rat/rabbit, 90 days) ≈ 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Aspiration hazard : Not classified
Copper Anti-Seize Paste
Viscosity, kinematic 100 mm²/s @ 40°C. Major component
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)
Viscosity, kinematic 110 mm²/s
propylene carbonate (108-32-7)
Viscosity, kinematic 2.291 mm²/s

11.2. Information on other hazards

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.

Not rapidly degradable

Not rapidly degradable		
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)		
EL50, daphnia, acute	> 10000 mg/l (48 Hours)	
Limestone (1317-65-3)		
LC50 - Fish [1]	> 10000 mg/l Oncorhynchus mykiss (rainbow trout)	
EC50 - Other aquatic organisms [1]	> 1000 mg/l Daphnia magna (water flea)	
EC50 72h - Algae [2]	289 mg/l Desmodesmus subspicatus (green algae)	
NOEC chronic algae	75 mg/l Desmodesmus subspicatus (green algae)	
Graphite (7782-42-5)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
propylene carbonate (108-32-7)		
LC50 - Fish [1]	> 1000 mg/l Cyprinus carpio (Directive 92/69/EEC, C.1, semistatic)	
EC50 - Other aquatic organisms [1]	> 1000 mg/l Daphnia magna (OECD Guideline 202, part 1, static)	
EC50 72h - Algae [1]	> 900 mg/l Desmodesmus subspicatus (OECD Guideline 201, static)	

12.2. Persistence and degradability

propylene carbonate (108-32-7)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	
Partition coefficient n-octanol/water (Log Pow) 2 – 6	
propylene carbonate (108-32-7)	
Partition coefficient n-octanol/water (Log Kow)	-0.41

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Distillates (petroleum), hydrotreated heavy naphthenic (64742-52-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

HP Code

: Recycle the material as far as possible. Recycle product or dispose safely. Recycle or dispose of in compliance with current legislation. Dispose of contents/container in accordance with licensed collector's sorting instructions. Assure that emissions are compliant with all applicable air pollution control regulations.

Sewage disposal recommendations

: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations

Recycle product or dispose safely. Recycle the material as far as possible. Recycle or

dispose of in compliance with current legislation.

: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one

or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

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Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

All substances within the mixture are:

Not listed on the Japanese ENCS (Existing New Chemical Substances) inventory

France

Occupational diseases	
Code	Description
RG 25	Diseases resulting from the inhalation of mineral dust containing crystalline silica (quartz, cristobalite, tridymite), crystalline silicates (kaolin, talc), graphite or coal.

Germany

Employment restrictions

Water hazard class (WGK) Storage class (LGK, TRGS 510) Joint storage table Observe restrictions according Act on the Protection of Working Mothers (MuSchG).
 Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

: LGK 13 - Non-combustible solids.

:	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for : LGK 1, LGK 6.2, LGK 7.

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Joint storage with restrictions permitted for : LGK 4.1A, LGK 5.1C.

Joint storage permitted for : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2,

LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12,

LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

: Z(1) - non biodegradable substances with hazardous properties for humans and the ABM category

environment (carcinogenicity/ mutagenicity/ reprotoxicity/bioacumulative potential/ toxicity or

: Distillates (petroleum), hydrotreated heavy naphthenic is listed

: Distillates (petroleum), hydrotreated heavy naphthenic is listed

persistence)

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen - Borstvoeding

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

: None of the components are listed : None of the components are listed

: None of the components are listed

Switzerland

Storage class (LK) : LK 11/13 - Solids

15.1.3. Global Inventories

Global Inventories	Status
Canada DSL	Contains listed substance(s)
Canada NDSL	Contains listed substance(s)
EC inventory	Contains listed substance(s)
National Inventory of Chemical Substances (INSQ)	Contains listed substance(s)
Inventory of Existing Chemical Substances in China (IECSC)	Contains listed substance(s)
Japanese Existing and New Chemical Substances (CSCL)	Contains listed substance(s)
Japanese Existing Chemical Substances (ISHL)	Contains listed substance(s)
Korea Existing Chemicals Inventory (KECI)(MOE, Korea)	Contains listed substance(s)
New Zealand Inventory of Chemicals (NZIoC)	Contains listed substance(s)
Philippines Inventory of Chemicals and Chemical Substances	Contains listed substance(s)
REACH universe of registered substances	Contains listed substance(s)
Taiwan Chemical Substance Inventory (TCSI)	Contains listed substance(s)
Thailand Existing Chemicals Inventory (DIW)	Contains listed substance(s)
National Chemical Inventory	Contains listed substance(s)
The United States TSCA (Toxic Substances Control Act) inventory - Active substances	Contains listed substance(s)
The United States TSCA (Toxic Substances Control Act) inventory - Inactive substances	Not applicable

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Revision date	Modified	
3	Composition/information on ingredients	Modified	

Abbreviations and acronyms:		
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	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	

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Abbreviations and acronyms:	
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

The classification complies with

: ATP 12

Safety Data Sheet (SDS), EU Ironsides

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.