

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

1.1. Product identifier

Product name Superclean Morendo DD

Product number 7042

Internal identification GHS21454

UFI: K79H-56PX-FK5V-6VNQ

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

Identified uses Fuel additive.

Uses advised against Non specified unless otherwise stated within this MSDS

1.3. Details of the supplier of the safety data sheet

Supplier Morris Lubricants

Castle Foregate Shrewsbury Shropshire SY1 2EL

+44 (0) 1743 232200 +44 (0) 1743 353584 sds@morris-lubricants.co.uk

1.4. Emergency telephone number

Emergency telephone +44(0)1743 232200 (08.45 - 17.00 GMT)

National emergency telephone United Kingdom: National Poisons Information Service. 0844 892 0111 (UK only, 24/7,

number healthcare professionals only) Ireland: National Poisons Information Centre: 353 (1) 809 2166

(8.00 a.m. to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1) 809 2566 (24

hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or -

1999/45/EC)

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P261 Avoid breathing vapour/ spray.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501a Dispose of container/contents to a hazardous or special waste collection point.

Contains Hydrocarbons C10-13 N-Alkanes, Isoalkanes, Cyclics <2% Aromatics, Solvent naphtha

(petroleum), heavy aromatic

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons C10-13 N-Alkanes, Isoalkanes, Cyclics <2%

10-30%

Aromatics

CAS number: — EC number: 918-481-9

REACH registration number: 01-

2119457273-39-0000

Classification

Asp. Tox. 1 - H304

2-Ethylhexyl Nitrate 5-10%

CAS number: 27247-96-7 EC number: 248-363-6 REACH registration number: 01-

2119539586-27

Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Acute Tox. 4 - H312

Acute Tox. 4 - H332 Aquatic Chronic 2 - H411 Xn;R20/21/22. N;R51/53. R44,R66.

2-Ethyl hexanol 1-5%

CAS number: 104-76-7 EC number: 203-234-3 REACH registration number: 01-

2119487289-20-0000

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi;R36/38.

Eye Irrit. 2 - H319

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Solvent naphtha (petroleum), heavy aromatic 1-5%

CAS number: 64742-94-5 EC number: 265-198-5 REACH registration number: 01-

2119510128-50-0000

Classification Classification (67/548/EEC or 1999/45/EC)

Asp. Tox. 1 - H304 Xn;R65. N;R51/53. R66,R67.

1,2,4-trimethylbenzene <1%

CAS number: 95-63-6 EC number: 202-436-9 REACH registration number: 01-

2119472135-42-0000

Classification Classification (67/548/EEC or 1999/45/EC)

Flam. Liq. 3 - H226 Xn;R20. Xi;R36/37/38. N;R51/53. R10.

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 Aquatic Chronic 2 - H411

naphthalene <1%

CAS number: 91-20-3 EC number: 202-049-5 REACH registration number: 01-

2119561346-37-0000

M factor (Acute) = 1 M factor (Chronic) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Carc. 2 - H351 Carc. Cat. 3;R40 Xn;R22 N;R50/53

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention if any discomfort continues.

Inhalation If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Get medical attention if any

discomfort continues.

Ingestion Get medical attention if any discomfort continues. Do not induce vomiting. Product contains

petroleum based material, which, if aspirated into the lungs may result in chemical

pneumonia.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms

occur after washing.

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

General information If aspiration into the lungs is suspected, eg when vomiting, admit to hospital immediately.

Inhalation Upper respiratory irritation.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Irritation of eyes and mucous membranes.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Heat from fire could result in drums bursting

Hazardous combustion

products

Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Oxides of carbon. Oxides of nitrogen. Fire may also create other unidentified organic

gases some of which may be toxic.

5.3. Advice for firefighters

Protective actions during

firefighting

Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. In case of spills, beware of slippery floors and

surfaces.

6.2. Environmental precautions

Environmental precautions Contain spillage with sand or earth. Avoid the spillage or runoff entering drains, sewers or

watercourses. The product is insoluble in water and will spread on the water surface.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage with sand or earth. Collect spillage for reclamation or disposal in sealed

containers via a licensed waste contractor. Avoid water contacting spilled material or leaking containers. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. In case of

spillage on water prevent the spread by use of suitable barrier equipment

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Always remove oil with soap and water or skin cleaning agent, never use

organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags

moistened with oil into pockets.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Miscellaneous hazardous material storage.

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

Hydrocarbons C10-13 N-Alkanes, Isoalkanes, Cyclics <2% Aromatics

1200 mg/m3 (171ppm), 8h TWA, Manuf. data

2-Ethylhexyl Nitrate

Long-term exposure limit (8-hour TWA): OEL 1 ppm

2-Ethyl hexanol

Long-term exposure limit (8-hour TWA): WEL 1 ppm 5.4 mg/m³

1,2,4-trimethylbenzene

Long-term exposure limit (8-hour TWA): WEL 25 ppm

OEL = Occupational Exposure Limit. WEL = Workplace Exposure Limit

2-Ethylhexyl Nitrate (CAS: 27247-96-7)

DNEL Workers - Oral; : 0.06 mg/kg

Workers - Dermal; : 1.6 mg/kg Workers - Inhalation; : 1.4 mg/m³ Consumer - Oral; : 0.03 mg/kg Consumer - Dermal; : 0.83 mg/kg Consumer - Inhalation; : 0.7 mg/m³

PNEC Fresh water; 0.008 mg/l

marine water; 0.00008 mg/l

2-Ethyl hexanol (CAS: 104-76-7)

DNEL Workers - Dermal; : 23 mg/kg bw/day

Workers - Inhalation; : 23 mg/kg bw/day

Consumer - Oral; : 1.1 mg/kg

Consumer - Dermal; : 11.4 mg/person/day Consumer - Inhalation; : 2.3 mg/m³

naphthalene (CAS: 91-20-3)

DNEL Workers - Oral; : 1 mg/kg bw/day

Workers - Dermal; : 3 mg/kg bw/day Workers - Inhalation; : 0.037 mg/m³ Consumer - Oral; : 0.5 mg/kg bw/day Consumer - Dermal; : 1.5 mg/kg bw/day Consumer - Inhalation; : 0.0183 mg/m³

PNEC Fresh water; 0.0024 mg/l

marine water; 0.0024 mg/l

8.2. Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure

limits for the product or ingredients.

Eye/face protection Eyewear complying with an approved standard should be worn if a risk assessment indicates

eye contact is possible. The following protection should be worn: Chemical splash goggles or

face shield.

Hand protection The most suitable glove should be chosen in consultation with the glove

supplier/manufacturer, who can provide information about the breakthrough time of the glove

naterial

Other skin and body

protection

Use barrier creams to prevent skin contact.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash

promptly with soap and water if skin becomes contaminated.

Respiratory protection
No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit.

Thermal hazards Not anticipated under normal conditions of use. The product is combustible if heated

excessively and an ignition source is applied.

Environmental exposure

controls

Do not allow product to contaminate land.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Yellow.

Odour Characteristic. Oil-like.

Odour threshold Not determined.

pH Not applicable.

Melting point Not applicable.

Initial boiling point and range >320°C @ 101.3 kPa

Flash point 74°C Pensky-Martens closed cup.

Upper/lower flammability or

explosive limits

Not known.

Other flammability Product is not flammable but on excessive heating may become combustible.

Vapour density Not determined.

Relative density 0.860 @ 15.6°C

Solubility(ies) Insoluble in water. Soluble in the following materials: Organic solvents.

Partition coefficient Not determined.

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Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity 19.5 cSt @ 40°C

Explosive properties Not considered to be explosive.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties The mixture itself has not been tested but none of the ingredient substances meet the criteria

for classification as oxidising.

9.2. Other information

Volatile organic compound The product is a complex mixture, the majority of which would not be classed as a VOC.

However it cannot be discounted that trace or low levels of VOCs may be present.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

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

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

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Oxides of carbon. Protection against nuisance dust must be used when the airborne

concentration exceeds 10 mg/m3.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 6,815.7

Acute toxicity - dermal

Notes (dermal LD₅₀) Not expected to be highly toxic based on information of ingredients.

ATE dermal (mg/kg) 7,857.14

Acute toxicity - inhalation

Notes (inhalation LC₅₀) The product is unlikely to present any significant inhalation hazard at ambient temperatures

and under normal conditions of use.

ATE inhalation (gases ppm) 61,341.33

ATE inhalation (vapours mg/l) 149.95

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ATE inhalation (dusts/mists

mg/l)

20.45

Serious eye damage/irritation

Serious eye damage/irritation May cause mild, short lasting discomfort to eyes.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No specific test data are available.

Reproductive toxicity

Reproductive toxicity - fertility No data available to suggest the product will cause reproductive toxicity.

Aspiration hazard

Aspiration hazard Kinematic viscosity <= 20.5 cSt @ 40 C Poses an aspiration hazard.

General information This product has low toxicity. Only large quantities are likely to have adverse effects on

human health.

Ingestion Swallowing significant quantities may cause discomfort, nausea, diarrhoea and irritation of the

digestive tract. Aspiration into the lungs (e.g. through vomiting) after ingestion can be

hazardous with possible resultant chemically induced pneumonia.

Skin contact Skin irritation should not occur when used as recommended. Repeated exposure may cause

skin dryness or cracking.

Eye contact May cause temporary eye irritation.

Acute and chronic health

hazards

Prolonged or repeated contact with used oil may cause serious skin diseases, such as

dermatitis and skin cancer.

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability The product is not classed as being readily biodegradable by OECD test methods but is

considered inherently biodegradable.

Biological oxygen demand Not determined.

Chemical oxygen demand Not determined.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is non-volatile. The product is insoluble in water and will spread on the water

surface.

Henry's law constant Not determined.

12.5. Results of PBT and vPvB assessment

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Results of PBT and vPvB

assessment

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

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site

in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority.

Waste class EWC 13 02 XX

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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 Health and Safety at Work etc. Act 1974 (as amended).

The Pollution Prevention and Control Act 1999.

Special Waste regulations 1996.

Control of Pollution (Oil Storage) (England) Regulations 2001

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EU legislation Dangerous Preparations Directive 1999/45/EC.

Dangerous Substances Directive 67/548/EEC.

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).

Guidance Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US-TSCA

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines - PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 02/11/2020

Revision 6

Supersedes date 02/11/2020

SDS number 21454

Risk phrases in full Not classified.

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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.

H412 Harmful to aquatic life with long lasting effects.

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.