



The Ultimate Lubricant

78

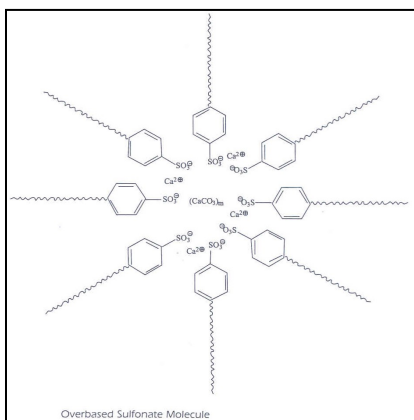


Nonfood Compounds
Category Code : H1
Registration Number : 133895

DESCRIPTION:

Omega 78 Food Grade Anti-Corrosion Grease was developed based on the most advanced calcium sulfonate grease technology. It belongs to the latest and revolutionary generation of lubrication solutions engineered by Omega Division

Application areas include steel mills, pulp and paper mills, off-road and construction equipment, mining and marine equipment, fresh & sea water shipping, nuclear plants, electricity generation, automotive and general manufacturing. Omega 78 is characterized by its sustainable high performance under extreme conditions, particularly heat, water and high and shock loads..



KEY PROPERTIES & BENEFITS:

Omega 78 features the following key properties and benefits:

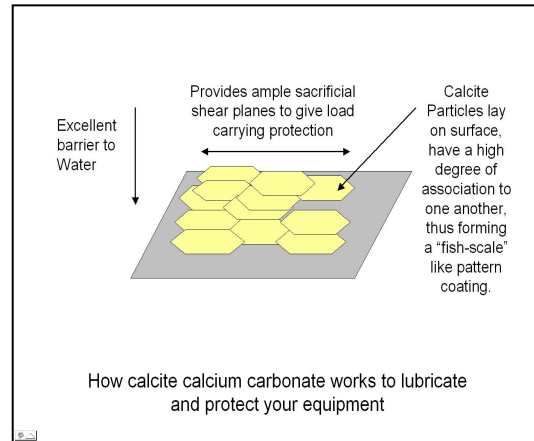
- Superior corrosion resistance originating from strong polar action of the sulfonate ion
- Excellent EP (extreme pressure) and AW (antiwear) without the use of additives due to the unique calcite crystal structure of the thickener
- Excellent oxidation resistance and response to antioxidants
- Excellent mechanical stability both in the presence of water and at elevated temperatures
- High dropping point typically in excess of 300°C
- Promising low temperature properties
- Fit for use in centralized pumping systems

THE UNIQUE CRYSTALLINE CALCITE CALCIUM PROTECTION:

One of the typical targets of the calcium sulfonate technology is to solve problems found in the lubrication of motor operated steam valves where protection against heat, moisture, and loads, among other stresses, is critical.

The primary building block of the grease – the crystalline calcite calcium carbonate provides excellent AW, EP, and anti-corrosion properties due to the method by which it adheres to the rubbing surface.

The calcite wafer-like platelets orient parallel to the surface in a fish-scale like pattern, providing an excellent barrier to water and a sacrificial wear surface. When the grease is fully complexed, a very high dropping point and excellent mechanical stability under a wide range of conditions result.



This technology has inherent advantages without the use of added performance additives. Omega 78 does not require the use of heavy metals, sulfur, chlorine compounds or other EP additives, to give the high EP/AW performance.

FOOD MACHINERY APPLICATIONS:

Greases used in a food-processing environment are usually needed to seal out contaminants, to reduce misting or dripping, to lubricate heavily loaded or slow moving bearings, and to lubricate bearings that see extremes in heat.

Key applications include cleansing, sterilizing, homogenizing, blending, mixing, stirring, baking, freezing, chilling, frying, cooking, cutting, slicing, packaging, canning, and bottling.



Under the effect of heat and usual elevated temperatures, grease performance is critical in food-processing equipment. Bearings can be subjected to heat in baking and cooking applications, in loaded bearings, electric motors, and in equipment during sterilization.

The base oil chosen for Omega 78 is a premium product, greatly extending the life of the grease. Under a special formulation, Omega 78 has considerably outperformed competing products in enhancing bearing life performance. Omega 78 works exceptionally well under dynamic conditions.

Taking advantage of a more advanced thickener technology, Omega 78 has low oil bleed tendencies. Such low oil bleed and good mechanical stability at elevated temperatures is important to maximize lubricant life and to reduce contamination of the food being processed.

AUTOMOTIVE APPLICATIONS:

Omega 78 provides superior oxidation resistance leading to longer service life for CV joints. Bearing life can also be largely extended by 100% to even 200%. Together with the excellent corrosion resistance, elastomer compatibility, low fretting wear, and EP performance, all without the use of environmentally hazardous compounds, Omega 78 is ideal for greasing CV joints.



PAPER MILL APPLICATIONS:

Only the highest quality grease will satisfy the most stringent requirement of Paper mills. Omega 78 fulfills all such requirements with its super corrosion resistance, high EP, shear stability in the presence of water, and extended operating life under elevated temperatures. Calcium sulfonate technology is ideally suited to this environment particularly for its high resistance to corrosion.

Press rolls are located at the second step in removing water from the freshly formed paper prior to the paper entering the drying section. These rolls, up to 10 meters in length and weighing more than 30 tonnes, are supported by large double row spherical roller bearings approximately 1 meter in diameter. The bearing rpm is usually under 350 rpm.

Withstanding high EP conditions, water washout and mechanical stability while mixing with mill water, Omega 78 outperforms all other technologies. What's more is Omega 78's high resistance to the tendency to soften under the impact of water mixing and shearing at elevated temperatures.

Omega 78 also handles the lubrication needs outstandingly at the Felt Roll Tensioning Roll. Omega 78 exceptional properties withstand the adverse operating conditions here, including degradation due to heat and mechanical action through extended periods of operation without re-lubrication.

ELECTRICITY GENERATION:

One of the typical applications in various types of power plants including nuclear plants is the grease lubricated Motor Operated Valve (MOV) which is used to raise and lower steam control gates. The challenge is to have a single and truly multipurpose grease that can be used in all of the components of MOV units, including main gear box, a limit switch gear box, and a stem/stem nut section. The EP and AW characteristics of Omega 78 are excellent without the use of additives and its exceptional corrosion resistance have been proven as an ideal solution.

The absence of EP agents such as sulfur and chlorine compounds in Omega 78 rules out the risk of stress corrosion cracking of the stainless steel stem.

Omega 78 also provides good friction characteristics, corrosion resistance, oxidation resistance, and resistance to radiation induced damage if located in the radiated area of a nuclear plant.

Omega 78 possesses excellent resistance to changes in consistency during long periods of inactivity at elevated temperatures. This is particular critical as changes in consistency will lead to changes in friction coefficient which in turn lead to the system operating outside the friction range that was used to set the limit switch.

MARINE APPLICATIONS:

The genuine multipurpose nature of Omega 78 definitely renders it ideal as a deck grease in the lubrication of bearings, gears, and wire ropes.

Omega 78 surpasses all the significant properties required for a premium quality deck grease: resistance to washout and wash-off, resistance to corrosion in a salt water environment, resistance to softening at elevated temperatures, resistance to aging in service, and excellent EP and AW characteristics

STEEL MILL:

Omega 78 is ideally suited for use in steel mills particularly in areas of elevated temperatures, shock loading and where water may be mixed with the grease. The significantly increased life expectancy dramatically reduces grease consumption and down-time costs. Experienced steel mills have observed reductions of grease consumption in the order of 40 to 50% in such areas as hot strip mills and in roll neck bearings.



Omega 78 has been proven to work successfully in spherical roller bearings of cold rolling mills and in tapered roller bearings of hot rolling mills.

Omega 78 provides excellent properties such as resistance to quench water washout, corrosion protection, mechanical stability, pumpability, low oil separation, and high EP. Omega 78's excellent oxidation resistance coupled with good mechanical stability provides much longer bearing life over conventional grease products.

MINING:

In the past, diamond drill rod protection was typically lubricated using fibrous barium complex grease, use of which is diminishing due to environmental concerns. In contrast, Omega 78, fortified for water and abrasion resistance, was developed to meet this common application in mining. Omega 78, when applied properly, will form an adherent coating on each drill rod. The grease lubricates the rod during drilling and effectively remains as a film after removal from the hole, to act as a corrosion barrier until its next use.



Besides all the above-mentioned applications, Omega 78 is also ideal for flexible couplings which are important components for the transmission of rotary motion. Omega 78 is highly capable of resisting oil separation under high centrifugal forces, and with the ability to minimize fretting wear.

In sum, Omega 78's revolutionary grease technology has been demonstrated to deliver outstanding EP/AW, corrosion resistance, mechanical stability, oxidation resistance, water spray-off resistance and washout resistance. All these unique and excellent properties have combined to provide a superior multipurpose grease for industrial, automotive, marine, and a great variety of innovative uses.

TYPICAL DATA:

TEST	ASTM TEST METHOD	TEST RESULT
Base Oil		
Viscosity, cSt at 40°C	D-445	100
Viscosity, cSt at 100°C	D-445	11.0
Viscosity Index	D-2270	94
Flash Point, °C	D-92	260
Pour Point, °C	D-97	-10
Dropping Point, °C	D-2265	318
Worked Penetration	D-217	
60 Strokes		280
10,000 Strokes, % change		-1.0
Timken OK Load, Lbs	D-2509	60 Lbs
Four Ball, EP		
Weld Point, Kg	D-2596	500
Load Wear Index (LWI)	D-2596	62
Four Ball Wear, mm	D-2266	0.45
Rust Prevention Rating	D-1743	Pass
Copper Strip Corrosion Rating	D-4048	1B
Salt Fog Corrosion, 1 mil d.f.t., hours	B-117	>300
Water Washout @ 80°C, % loss	D-1264	2.7
Wheel Bearing Leakage, gm	D-1263	1.0
Roll Stability, 50% water, % change in pen	D-1831	2.1
Bearing Life Performance, hours	D-3527	180
Bomb Oxidation, psi drop after 1000 hours	D-942	6.0
Oil Separation, % loss	D-1742	0.1
Low Temperature Torque, -18°C, g-cm	D-1478	
Start		1404
60 minutes		247
Mobility @150 psi, -18°C, g/minute	US Steel Method	19.3
NLGI Grade	D-217	#2
Operating Temperature Range, °C	-	-18 to 180
Texture	Visual	Smooth
Color	Visual	Tan

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Product name: Omega 78
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Omega 78
Container size: 400 ml / 5 kg / 15 kg

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

Application: Grease.

1.3. Details of the supplier of the safety data sheet

<u>Supplier:</u>	GB importer:	Sovereign Lubricants (UK) Ltd, Crowtrees Lane, Rastrick, West Yorkshire, HD6 3LZ
<u>Manufacturer:</u>	ITW PP & F Korea Limited	T: 01484 718674 - F: 01484 400164
	13th Fl., Unit B, PAX Tower	enquiries@sovereign-omega.co.uk
	609 Eonju-ro, Gangnam-Gu	www.sovereign-omega.co.uk
	Seoul, Korea 06108	
	Tel:+82-2-2088-3560	
	Fax:+82-2-513-3567	
	magna@magnagroup.com	
	www.magnagroup.com	

1.4. Emergency telephone number

Emergency telephone: Call a Poison Center, emergency number or doctor/physician.
NHS: 111

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: The product is classified: Eye Irrit. 2;H319

2.2. Label elements



Warning

H319	Causes serious eye irritation.
P280	Wear eye protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P501	Dispose of contents/container as hazardous waste.

Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. May produce an allergic reaction.

2.3. Other hazards

PBT/vPvB: This product does not contain any PBT or vPvB substances.

Other: Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. The harmful effects may increase in used grease.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Only classified substances above threshold limits or substances with an exposure limit are shown. All substances in the product are either registered or exempt from registration under REACH.

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CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No.:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
60-100	8042-47-5	232-455-8	-	White Oil, highly refined mineral oil of pharmaceutical quality	-	L
5 - 10	64742-70-7	265-174-4	-	Paraffin oils (petroleum), catalytic dewaxed heavy	-	L
5 - 10	64742-65-0	265-169-7	-	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil-unspecified	Asp. Tox. 1;H304	
1-5	68584-23-6	271-529-4	-	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	Skin Sens. 1B;H317	SCL
1-5	61789-86-4	263-093-9	-	Sulfonic acids, petroleum, calcium salts	Eye Irrit. 2;H319	
1-<3	26264-06-2	247-557-8	-	Calcium dodecylbenzenesulphonate	Acute Tox. 4;H302 Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Chronic 4;H413	

Chemical name:

White Oil, highly refined mineral oil of pharmaceutical quality

Paraffin oils (petroleum), catalytic dewaxed heavy

Distillates (petroleum), solvent-dewaxed heavy paraffinic;
Baseoil-unspecified

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts

Sulfonic acids, petroleum, calcium salts

Calcium dodecylbenzenesulphonate

Notes:

SCL

Skin Sens. 1B;H317: C ≥ 10%

L: DMSO < 3% (IP 346)

SCL = Specific Concentration Limit.

References:

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

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of rashes, wounds or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink 1-2 glasses of water. Keep person under observation. If uncomfortable: Transportation to hospital. Bring along these instructions.

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

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

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

Medical attention/treatments: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Small fires: Extinguish with carbon dioxide or dry powder.
Larger fires: Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards: During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin and eyes. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Absorb spillage with oil-absorbing material. Clean contaminated area with oil-removing material.

6.4. Reference to other sections

References: For personal protection, see section 8.
For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Observe good chemical hygiene practices. Avoid prolonged and repeated contact with grease, particularly used grease. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.

Technical measures: Work practice should minimise contact.

Technical precautions: When working with heated grease, mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

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

7.3. Specific end use(s)

Specific use(s): No information available.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. When working with heated grease, mechanical ventilation may be required. Provide access to washing facilities incl. soap, skin cleanser and fatty cream.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory equipment: In case of inadequate ventilation use suitable respirator. Use respiratory equipment with particle filter, type P2.

Hand protection: Risk of contact: Wear protective gloves. Nitrile gloves are recommended. Thickness: >0.3 mm ; Breakthrough time: >240min.
The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Risk of contact: Wear goggles/face shield.

Hygiene measures: Wash hands after handling.

Environmental Exposure Controls: Not available.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state: Paste.
Colour: Tan.
Odour: Mild. Hydrocarbon.
pH: Not applicable.
Melting point / freezing point: Not applicable.
Boiling point: Not applicable.
Flash point: > 180 °C
Evaporation rate: Not determined.
Flammability (solid, gas): Not relevant.
Explosive limits not available
Vapour pressure: < 0.0008 hPa
Relative density: 0,95 - 1,05
Solubility: insoluble in water
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): not available
Viscosity: Not determined.
Explosive properties: Non-explosive
Oxidising properties: Non-oxidising

9.2. Other information

Other data: Not relevant.

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Not reactive.

10.2. Chemical stability

Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

10.4. Conditions to avoid

Conditions to avoid Water, moisture.

10.5. Incompatible materials

Incompatible materials: Acids. Bases. Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: None in particular.

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

The harmful effects may increase in used grease.

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Inhalation of oil mist or vapours formed during heating of the product will irritate the respiratory system and provoke coughing.

Skin contact: Degreasing. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

Eye contact: Irritating and may cause redness and pain.

Ingestion: May irritate and cause malaise.

Specific effects: Prolonged or repeated contact with used grease may cause serious skin diseases, such as dermatitis. The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals.

Toxicological data: ATE (Oral): >5000 mg/kg (calculated)

11.2. Information on other hazards

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: The product contains a substance which is harmful to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
Calcium dodecylbenzenesulphonate
LC50 (Fish, Cyprinus carpio (48 h): 2.8 - 4.2 mg/l
EC50 (Daphnia magna, 48 hours): 2.9 mg/l
EC50 (Algae, Scenedesmus capricornutum, 96 H): 29 mg/l
NOEC (Water flea, 21 days): 1.18 mg/l

Greases are generally hazardous to the environment.

12.2. Persistence and degradability

Degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: No data available.
The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

PBT/vPvB: This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: The product does not contain any substance identified as having endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 20 01 26

Contaminated packaging: Dispose of contaminated packings as residue.

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SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/AND/RID).

14.1. UN number

UN-No: -

14.2. UN proper shipping name

Proper Shipping Name: -

14.3. Transport hazard class(es)

Class: -

14.4. Packing group

PG: -

14.5. Environmental hazards

Marine pollutant: -

Environmentally Hazardous substance: -

14.6. Special precautions for user

Special precautions: Not relevant.

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

Transport in bulk: Not relevant.

SECTION 15: REGULATORY INFORMATION

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

National regulation: 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
UK Statutory Instruments, 2021 No. 904, CONSUMER PROTECTION ENVIRONMENTAL PROTECTION HEALTH AND SAFETY. The REACH etc. (Amendment) Regulations 2021.
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 720), as amended.
EH40/2005, Workplace exposure limits 2005, with amendments.
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical Safety Assessment

CSA status: No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Handling of used oils:

Protect health - avoid prolonged and repeated skin contact. Wash with soap and water. Protect the environment - do not pollute drains, water courses or the soil. Contact your local authority for any used oil disposal instructions.

The following sections contain revisions or new statements: 1, 3, 4, 7, 8, 9, 11, 12, 13, 15, 16.

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Abbreviations and acronyms used in the safety data sheet:

ATE = Acute Toxicity Estimate.
CSA= Chemical Safety Assessment.
LC50 = Lethal Concentration 50%.
EC50 = Effective Concentration 50%.
NOEC = No Observed Effect Concentration.
PBT = Persistent, Bioaccumulative and Toxic.
SCL = Specific Concentration Limit.
vPvB = very Persistent and very Bioaccumulative.

Additional information: Classification according to Regulation (EC) No. 1272/2008: Calculation method.

Wording of H-statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H413	May cause long lasting harmful effects to aquatic life.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.
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