SAFETY DATA SHEET

In accordance with 1907/2006 annex II and 1272/2008
(All references to EU regulations and directives are abbreviated into only the numeric term)
Amendment date 2022-04-01
Replaces SDS issued 2021-12-17
Revision date 2021-12-17
Version number 3.1

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

1.1. Product identifier

Trade name	RME-BXN
CAS No	67762-38-3
EC No	267-015-4
REACH registration number	01-2119471664-32
Other names or synonyms	Verdis PolarisTM Vintra, Verdis PolarisTM Somra, Verdis PolarisTM Flora, BioCaleoTM, Verdis PolarisTM Marina och BXN Chem

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

Identified uses	Propellants Biofuel Uses in coatings

1.3. Details of the supplier of the safety data sheet

Company	Adesso BioProducts AB Verkmästarvägen 10 SE-444 23 Stenungsund Sweden
Telephone	+46 303 697 44
E-mail	info@adessobioproducts.se
Company	Adesso BioProducts AS Öraveien 2 1630 Gamle Fredrikstad Norway
Telephone	-
E-mail	info@adessobioproducts.se

1.4. Emergency telephone number

Phone number for emergencies: 999 or 112. The numbers are available 24/7.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Upon assessment, this substance is not classified as hazardous according to 1272/2008

2.2. Label elements

Hazard pictogram	Not applicable
Signal word	Not applicable
Hazard statement	Not applicable

2.3. Other hazards

This product does not contain any substances that are assessed to be a PBT or a vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Constituent	Classification	Concentration
UNSATURATED ALKYLCARBOXYLIC ACID METHYL ESTER (C16-C18) AND (C18)		
CAS No: 67762-38-3 EC No: 267-015-4 REACH: 01-2119471664-32		≥99 %

Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Never attempt to administer liquid, or anything else, to an unconscious person via the mouth.

Upon breathing in

Fresh air and rest. If symptoms persist seek medical advice.

Upon eye contact

Rinse the eye for several minutes with lukewarm water. If irritation persists call a doctor.

Upon skin contact

Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Upon ingestion

Rinse nose, mouth and throat with water.

Get medical attention if you feel unwell.

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

No further relevant information available.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended extinguishing agents

Extinguish with materials intended for the surrounding fire.

Unsuitable extinguishing agents

May not be extinguished with water dispersed under high pressure.

5.2. Special hazards arising from the substance or mixture

In case of fire gases detrimental to health (carbon monoxide and carbon dioxide) may form.

5.3. Advice for firefighters

Protective measures should be taken regarding other material at the site of the fire.

In case of fire use proper breathing apparatus.

Wear full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep unauthorized and unprotected people at a safe distance.
Avoid inhalation and exposure to skin and eyes.
Use recommended safety equipment, see section 8.
Note that there is a risk of slipping if product is leaking/spilling.
Ensure good ventilation.

6.2. Environmental precautions

Avoid release to drains, soil or watercourses.

6.3. Methods and material for containment and cleaning up

Absorb the liquid with an inert absorbent, vermiculite, for example. Collect the material for disposal at a waste disposal facility.
Clean contaminated area with suitable detergent.

6.4. Reference to other sections

See section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Store this product separately from food items and keep it out of the reach of children and pets.
Avoid spillage, inhalation and contact with eyes and skin.
Handle in premises which have modern ventilation standards.
Use recommended safety equipment, see section 8.
Do not eat, drink or smoke in premises where this product is handled.
Wash your hands after using the product.
Remove contaminated clothing.
Wash contaminated clothing before reuse.
Keep away from incompatible products.

7.2. Conditions for safe storage, including any incompatibilities

Keep out of reach for children.
Store separately from food and animal fodder, incl. utensils or surfaces which have been in contact with these things.
The product should be stored in a manner which prevents hazards to health and the environment. Avoid exposure to humans and animals and do not discharge the product in a sensitive environment.
Always use sealed and visibly labeled packages.
Store tightly, in original packaging.
Store in a well-ventilated space.
Store in dry and cool area.
Do not store close to incompatible materials (see section 10.5).

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values

All ingredients (cf. Section 3) lack occupational exposure limit values.

DNEL
UNSATURATED ALKYLCARBOXYLIC ACID METHYL ESTER (C16-C18) AND (C18)

	Type of exposure	Route of exposure	Value
Consumer	Chronic Systemic	Inhalation	23 mg/m^3
Worker	Chronic Systemic	Dermal	10 mg/kg bw
Worker	Chronic Systemic	Inhalation	6.96 mg/m^3
Consumer	Chronic Systemic	Oral	5 mg/kg bw
Consumer	Chronic Systemic	Dermal	5 mg/kg bw

PNEC
UNSATURATED ALKYLCARBOXYLIC ACID METHYL ESTER (C16-C18) AND (C18)

Environmental protection target	PNEC value
Fresh water	2.504 mg/L
Marine water	0.2504 mg/L
Microorganisms in sewage treatment	520 mg/L
Intermittent	25.04 mg/L

8.2. Exposure controls

No special measures need to be taken in the event of normal handling or use.

8.2.1. Appropriate engineering controls

Handle in premises which have modern ventilation standards.

Eye/face protection

Eye protection should be worn if there is any danger of direct exposure or splashing.

Skin protection

Use protective gloves fulfilling the standard EN374 if there is a risk of direct contact.
Wear suitable protective clothing when necessary.

Respiratory protection

Use appropriate respiratory protective equipment in case of insufficient ventilation.
Breathing apparatus with combined gas/particle filter (A/P2).

8.2.3. Environmental exposure controls

Work with the product should take place in such a way that the product does not get into drains, waterways, soil and air.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	liquid Form: liquid
(b) Colour	yellowish green
(c) Odour	mildly
(d) Melting point/freezing point	-16.92 - -15.59 °C
(e) Boiling point or initial boiling point and boiling range	348 °C
(f) Flammability	Not indicated
(g) Lower and upper explosion limit	Not indicated
(h) Flash point	>101 °C
(i) Auto-ignition temperature	240 °C
(j) Decomposition temperature	Not indicated
(k) pH	Not indicated
(l) Kinematic viscosity	6.1 mPa·s
(m) Solubility	Solubility in water: Insoluble
(n) Partition coefficient n-octanol/water (log value)	Not indicated
(o) Vapour pressure	4.2 hPa
(p) Density and/or relative density	0.88 g/cm^3
(q) Relative vapour density	Not indicated
(r) Particle characteristics	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: Stability and reactivity

10.1. Reactivity

The product contains no substances which can lead to hazardous reactions at normal use.

10.2. Chemical stability

The product is stable at normal storage and handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known during normal use.

10.4. Conditions to avoid

Avoid sources of ignition and excessive temperatures.

10.5. Incompatible materials

Avoid contact with strong oxidizing agents.
Avoid contact with strong acids.
Avoid contact with strong bases.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO2) and harmful and irritating substances.

SECTION 11: Toxicological information

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

Not indicated.

Acute toxicity

The product is not classified as acutely toxic.

Skin corrosion/irritation

The substance is classified to be neither corrosive nor irritant to skin. Mild irritation may occur on prolonged or repeated exposition.

Serious eye damage/irritation

The substance is classified to be neither corrosive nor irritant to the eyes. Mild irritation may occur on prolonged or repeated exposition.

Respiratory or skin sensitisation

The product does not contain any known allergens.

Germ cell mutagenicity

The product is not classified as mutagen.

Carcinogenicity

The product is not classified as carcinogenic.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

STOT-single exposure

No known hazards for occasional exposure.

STOT-repeated exposure

No known hazards for repeated exposure.

Aspiration hazard

The product is not classified as being toxic for aspiration.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Not indicated.

11.2.2. Other information

Not indicated.

SECTION 12: Ecological information

12.1. Toxicity

Avoid larger spills in soil, water and drains.
No ecological damage is known or expected in the event of normal use.

UNSATURATED ALKYLCARBOXYLIC ACID METHYL ESTER (C16-C18) AND (C18)

LC50 Zebra fish (Brachydanio rerio) 96h: > 0.26 mg/L
NOEC Algae (Pseudokirchneriella subcapitata) 72h: > 0.131 mg/L

12.2. Persistence and degradability

The product degrades easily in the natural environment.

12.3. Bioaccumulative potential

This product or its constituents are not expected to accumulate in nature.

12.4. Mobility in soil

The product has little mobility in soil.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

Not indicated.

12.7. Other adverse effects

No known effects or hazards.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste handling of the product

Avoid discharge into sewers.
See directive 2008/98/EC on waste. Observe national or regional provisions on waste management.
The product is not classified as hazardous waste.
Residual, old or contaminated product should be disposed of at a waste management facility.
Empty, rinsed packaging is sent for recycling where practicable.
Observe local regulations or contact the supplier for further information.

Classification according to 2008/98/EC

Recommended LoW-code: 16 03 06 Organicwastes other than those mentioned in 16 03 05

SECTION 14: Transport information

Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number or ID number

Not classified as dangerous goods

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

14.8 Other transport information

Not applicable

SECTION 15: Regulatory information

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

Not indicated.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out in accordance with Regulation (EC) 1907/2006 Annex I, and documented in this safety data sheet.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet
Revisions of this document

Earlier versions
2021-12-17 Changes in section(s) 1.

16b. Legend to abbreviations and acronyms used in the safety data sheet
Explanations of the abbreviations in Section 14

ADR European Agreement concerning the International Transport of Dangerous Goods by Road
RID Regulations concerning the International Transport of Dangerous Goods by Rail
IMDG International Maritime Dangerous Goods Code
ICAO International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)
IATA The International Air Transport Association

16c. Key literature references and sources for data
Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I , as updated to 2022-04-01.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
1272/2008	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
2008/98/EC	DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I , where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI .

16e. List of relevant hazard statements and/or precautionary statements

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment
Warning for misuse

This product is not expected to cause severe harm to humans or the environment. However the manufacturer, the distributor or the supplier cannot be responsible for unusual or criminal use of the product.

Other relevant information

Not indicated

Editorial information

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, www.kemrisk.se