

Safety Data Sheet

according to 1907/2006/EC, Article 31, (Commission Regulation (EU) 2020/878)

Trade name: Ekokane™ MB

Version: 1

Revision: 2024.02.19

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name Ekokane™ MB
CAS number 112-40-3

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

Recommended Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU21 Consumer uses: Private households/general public/consumers
SU22 Professional uses

Uses advised against Not determined
Product category Not determined
Process category Not determined

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier
CORUM INC.
6FL., No.360, Ruei Guang Rd.,
Neihu Dist., Taipei 114729, Taiwan
Further information obtainable from
marketing.support@corum.com.tw

1.4 Emergency telephone number

Company phone number CORUM Tel. 886-2-8751-6060
Fax. 886-2-8751-6363

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Label according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.
Hazard pictograms



GHS08

Signal word

Danger

Hazard statements

H304 May be fatal if swallowed and enters airways.

Precautionary statements

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.

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P405

Store locked up.

P501

Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT:

Based on available data, the ingredients of this mixture do not meet the PBT criteria (not PBT) according to (EC) 1907/2006, Annex XIII.

vPvB:

Based on available data, the ingredients of this mixture do not meet the vPvB criteria (not vPvB) according to (EC) 1907/2006, Annex XIII.

Determination of endocrine-disrupting properties

The product does not contain ingredients with endocrine-disrupting properties for humans.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Composition/information on ingredients

Name	Chemical name	Identification	Classification	SCLs, M-Factors	%
COMPONENT					
C9-12 ALKANE	-	(CAS No.) 112-40-3 (EC No.) 203-967-9	Asp. Tox. 1 H304	-	100%

3.2 Mixtures

Not applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.

After skin contact

Wash off with plenty of water.

After eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After swallowing

If swallowed, seek medical advice immediately and show this container or label. If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

No further relevant information available.

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4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians

Treatment: Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Dry powder, Foam, Carbon dioxide (CO₂).

Unsuitable extinguishing media

Not determined

5.2 Special hazards arising from the substance or mixture

Dangerous gases or fumes may occur in case of fire.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

Standard procedure for chemical fires. Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2 Environmental precautions

Avoid subsoil penetration.

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

SECTION 7: HANDLING AND STORAGE

7.1 Precaution for safe handling

Advice on safe handling

Wear personal protective equipment.
Avoid contact with skin and eyes.

Information about fire - and explosion protection:

Keep away from open flames, hot surfaces and sources of ignition. Normal measures for preventive fire protection. Fires involving liquids or liquid containing substances. Also includes substances which become liquid at elevated temperatures.

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7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Store in original container. Keep container tightly closed. Stable at normal ambient temperature and pressure. Suitable materials: plastic receptacles
Incompatible materials	No further relevant information available.
Storage class (TRGS 510)	10: Combustible liquids
Requirements to be met by storerooms and receptacles	No special measures required.
Information about storage in common storage facility	Not required
Further information about storage conditions	None

7.3 Specific end use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

Exposure limits	No data available.
DNEL	Not determined
PNEC	Not determined

8.2 Exposure controls

Appropriate engineering controls Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work.

Personal protective equipment

Respiration protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hands protection

Protective gloves



The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are

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Material of gloves	provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Penetration time of glove material	Material: Fluorinated rubber Break through time: >= 480 min Layer thickness: 0.4 mm.
Eye protection	Tightly fitting safety goggles.
General protective measure	Wear suitable protective equipment.
General hygiene measure	Avoid contact with eyes. Wear suitable gloves and eye/face protection.
Environmental exposure controls	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear
Color	Colourless
Odor	Typical
Odor threshold	Not determined
<u>Property</u>	
pH value (5%)	Not determined
Pour point	-10 °C; 1,023 hPa; ASTM D 97-66
Melting point/Melting range	Not determined
Boiling point/Boiling range	ca. 212 °C; 1,013 hPa; ASTM D 1020-94
Flash point	83.7 °C; 1,022 hPa
Flammability (solid, gaseous)	Not applicable
Ignition temperature	ca. 208 °C; 1,013 hPa; DIN 51794
Auto-ignition temperature	not auto-flammable
Viscosity, kinematic	2 mm ² /s; 20 °C 1.5 mm ² /s; 40 °C
Explosive properties	Not expected based on structure and functional groups.
Oxidizing properties	Not expected based on structure and functional groups.
Decomposition temperature	Not determined
Self-igniting	Not determined
Danger of explosion	Product does not present an explosion hazard.
Explosion limit	
Lower	0.6 %(V)
Upper	Not determined
Oxidizing properties	Not determined
Explosive properties	Not determined

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Vapor pressure	10 Pa; 20 °C; NF T 20-048 104 hPa; 50 °C; NF T 20-048
Density	0.75 g/cm ³ ; 20 °C
Relative density	ca.0.75; 20 °C; ASTM D 7042-04
Evaporation rate	Not determined
Water solubility	Insoluble
Partition coefficient (n-octanol/water at 25 °C)	log Pow: ca. 7.8; OECD Test Guideline 107
Kinematic viscosity	Not applicable
Dynamic viscosity	Not applicable

9.2 Other information

Surface tension	Not determined
Dissociation constant	Not determined
Granulometry	Not determined
Molecular weight	170.33 g/mol

Information with regard to physical hazard classes

Explosives	Void
Flammable Gases and Chemically Unstable Gases	Void
Flammable Aerosols	Void
Oxidising Gases	Void
Gases Under Pressure	Void
Flammable Liquids	Void
Flammable Solids	Void
Self-reactive Substances and Mixtures	Void
Pyrophoric Liquids	Void
Pyrophoric Solids	Void
Self-heating Substances and Mixtures	Void
Substances and Mixtures which in contact with water emit flammable gases	Void
Oxidising Liquids	Void
Oxidising Solids	Void
Organic Peroxides	Void
Substances and Mixtures corrosive to Metals	Void
Desensitized Explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

Heating can release hazardous gases.
Vapours may form explosive mixture with air.

10.4 Conditions to avoid

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Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Name	C9-12 ALKANE CAS: 112-40-3
Acute toxicity	<p>*Acute Toxicity-Oral LD50 > 5,000 mg/kg in rats *Acute Toxicity-Inhalation LC50 > 6,100 mg/m³ *Acute Toxicity-Dermal LD50 > 3,160 mg/kg in rabbits Based on available read across data, Dodcane is minimally toxic via ingestion where the LD50 is >5,000 mg/kg, by inhalation where the LC50 is >6,100 mg/m³, and via dermal exposure where the LD₅₀ is >3,160 mg/kg. These findings do not warrant classification under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).</p>
Skin corrosion/irritation	<p>*Not irritating to the skin Based on available read across data, C9-12 ALKANE does not meet the criteria for classification for skin Irritation under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).</p>
Serious eye damage/irritation	<p>*Not irritating to eyes Based on available read across data, C9-12 ALKANE does not meet the criteria for classification as ocular irritants under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).</p>
Respiratory tract	<p>*No studies were located to indicate that C9-12 ALKANE is a respiratory irritant. There are no studies that warrant classification as a respiratory irritant under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).</p>
Respiratory/skin sensitization	<p>*Based on available read across data, C9-12 ALKANE does not meet the criteria for classification as skin or respiratory sensitizers under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).</p>
Toxicokinetics, metabolism and distribution	<p>The substance is poorly absorbed via skin. (Category approach) The substance is readily absorbed by ingestion and inhalation. (Category approach) The substance is metabolised and excreted. (Category approach) The substance is rapidly eliminated from the body. (Category approach) Neurotoxicity (literature value) The substance is not likely to cause neurotoxicity. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).</p>
Repeated dose toxicity	<p>*Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test – NOAEL ≥ 1,000 mg/kg for rats</p>

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	*Repeated Dose Oral 90d - NOAEL ≥ 5,000 mg/kg bw/day for rats *Repeated Dose Inhalation 90d – NOAEC ≥ 10,400 mg/m ³ for rats Based on available data, C9-12 ALKANE does not meet the criteria for classification for repeated dose toxicity (STOT-RE) under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP).
Germ Cell mutagenicity	* In vitro tests did not show mutagenic effects. (Category approach)
Carcinogenicity	*The available data and available weight of evidence demonstrate that C9-12 ALKANE is highly unlikely to be carcinogenic and is not classifiable as a carcinogen.
Reproductive toxicity	*There is no need to perform a screening study for reproductive/developmental toxicity in experimental animals.
STOT-single exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure. (Category approach)
STOT-repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure. (Category approach)
Aspiration hazard	*H304 May be fatal if swallowed and enters airways.

*from ECHA webpage registration data

11.2 Information on other hazards

Endocrine disrupting properties Substance is not listed.

SECTION 12: ECOLOGICAL INFORMATION

Name	C9-12 ALKANE CAS: 112-40-3
12.1 Toxicity Aquatic toxicity	*This substance has been shown to have a very low toxicity towards organisms, with NOELR values equal or higher than 1,000 mg/L for all species (algae, crustacean and fish). *Based on data available for this substance and structural analogues, this substance does not demonstrate acute fish, acute invertebrate, algae and microorganism toxicity at high loading rates. Chronic toxicity was never observed below 1 mg/L.
12.2 Persistence and degradability	*This substance is considered to be readily biodegradable.
12.3 Bioaccumulative potential	*Bioconcentration factor (BCF): 790.9; calculated not bioaccumulative according PBT criteria (literature value)
12.4 Mobility in soil	*Adsorption/desorption (soil); Koc: > 5,000; calculated immobile strong adsorption to soil
12.5 Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects	No further relevant information available.

*from ECHA webpage registration data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Recommendation
European waste catalogue

Can be incinerated, when in compliance with local regulations.
Not applicable

13.2 Uncleaning packaging

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Recommendation

Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2 UN proper shipping name

ADR/RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4 Packing group

ADR/RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5 Environmental hazard

Marine pollutant	No
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14.6 Special precautions for user

Special precaution for user	Not classified as dangerous in the meaning of transport regulations.
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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Ship type	No 2
Pollution category	Y
Remarks	MARPOL NAME: C9-12 ALKANE (all isomers)

14.8 ICAO/IATA – DGR

Not regulated as dangerous good

14.9 Maritime transport in bulk according to

IMO instruments	Not applicable
UN "Model Regulation"	Not applicable

SECTION 15: REGULATORY INFORMATION

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

Name	C9-12 ALKANE CAS: 112-40-3
Inventory - United States - Toxic	Y

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Substances Control Act (TSCA)	
Inventory - Canada - Domestic Substances List (DSL)	Y
Inventory - Canada - Non-Domestic Substances List (NDSL)	N
Inventory - Canada - Revised In Commerce List (R-ICL)	N
ECHA Inventory of substances	Y
Japan Existing and New Chemical Substances (ENCS)	Y
Inventory of Existing Chemical Substances in China (IECSC)	Y
Korean Existing and Evaluated Chemical Substances (KECL)	Y
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Y
Australian Inventory of Industrial Chemicals (AIIC)	Y
New Zealand Inventory of Chemicals	Y
TCSI - Taiwan Chemical Substance Inventory	Y
OECD - List of High Production Volume Chemicals	Y

Y : listed, N : not listed, E : exempted

Directive 2004/42/EC

Seveso category

Substance is not listed.

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

Substance is not listed.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer - ANNEX I (Ozone-depleting potential)

Substance is not listed.

National regulations

Other regulations, limitations and prohibitive regulations

Not determined

Substances of very high concern (SVHC) according to REACH, Article 59(10)

Substance is not listed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

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Abbreviations and acronyms

NOAEL: Non Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

NOEC: No Observed Effect Concentration

GHS: Globally Harmonized System of Classification and Labeling Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstract Service (division of the American Chemical Society)

VbF: Ordinance on the storage of combustible liquids, Austria

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

SVHC: Substances of Very High Concern

PBT: Persistent Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT: Specific Target Organ Toxicity

ADR: Agreement on Dangerous Goods by Road

RID: Regulations concerning the Intl Transport of Dangerous Goods by Rail

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Dangerous Goods

IATA: International Air Transport Association

Sources

Own data from manufacture

Chemical safety report according to REACH registration dossier